88888888888888888888888888888888888888	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	\$	RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR		
				TTT	
88888888888888888888888888888888888888	AAA AAA	\$	RRR RRR RRR RRR RRR RRR	††† ††† †††	

88888888 88 88 88 88 88 88 88 88 88 88 8	AAAAAA AA AA AA AA	\$	20000000 00000000000000000000000000000	000000 00 00 00 00	\$	
		\$				

18 19

222222222222333333333333

40

4444455555555

Page

```
0001
0002
0003
0004
```

MODULE BASSCLOSE (IDENT = '1-008'

! Close a BASIC file ! File: BASCLOSE.B32 EDIT:MDL1008

BEGIN

.

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FACILITY: BASIC-PLUS-2 I/O SUPPORT

ABSTRACT:

This module contains the routine which closes a file for a BASIC program.

ENVIRONMENT: VAX-11 User Mode

AUTHOR: John Sauter, CREATION DATE: 16-FEB-1979

MODIFIED BY:

1-001 - Original. JBS 16-FEB-1979
1-002 - Use BASIOERR.REQ to define the I/O error codes. JBS 20-FEB-1979
1-003 - Set up ISB\$A_USER_FP. JBS 25-JUL-1979
1-004 - Purge the I/O buffer explicitly, since OTS\$\$CLOSE_FILE doesn't any more. JBS 27-AUG-1979
1-005 - If the file has had more than one stream connected to it, disconnect the other streams. JBS 28-SEP-1979
1-006 - Call BAS\$FIELD_CLOSE to remove fielded variables from the symbol table, in case the compiler doesn't. PLL 2-JUN-81
1-007 - Remove the call to BAS\$FIELD_CLOSE, as it is unshared and BAS\$CLOSE is shared. PL 16-Jun-81
1-008 - call BAS\$FIELD_CLOSE now, as all BAS\$ entry points are now shared.
MDL 26-Mar-1984

BASSCLOSE

D 7 16-Sep-1984 00:07:54 14-Sep-1984 11:54:47

VAX-11 Bliss-32 V4.0-742 [BASRTL.SRC]BASCLOSE.832:1

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58

0058 1 0059 1 !<BLF/PAGE>

•

```
BASSCLOSE
1-008
   SWITCHES:
                            SWITCHES ADDRESSING_MODE (EXTERNAL = GENERAL, NONEXTERNAL = WORD_RELATIVE);
                             LINKAGES:
                            REQUIRE 'RTLIN: OTSLNK':
                                                                                    ! Define all the linkages
                              TABLE OF CONTENTS:
                            FORWARD ROUTINE
BASSCLOSE : NOVALUE:
                                                                                   ! Close a file from BASIC
                              INCLUDE FILES:
                            REQUIRE 'RTLIN:RTLPSECT';
                                                                                    ! Macros for defining psects
                            REQUIRE 'RTLML:OTSLUB';
                                                                                    ! Define symbols in the LUB
                            REQUIRE 'RTLML:OTSISB';
                                                                                    ! Define symbols in the ISB
                            REQUIRE 'RTLIN: BASIOERR';
                                                                                    ! Define the I/O error codes.
                            LIBRARY 'RTLSTARLE':
                                                                                    ! Define system symbols
                              MACROS:
                                     NONE
                              EQUATED SYMBOLS:
                                     NONE
                              PSECTS:
                            DECLARE_PSECTS (BAS);
                                                                                    ! Declare psects for BAS$ facility
                              OWN STORAGE:
                                     NONE
                              EXTERNAL REFERENCES:
                            EXTERNAL ROUTINE
BAS$$CB_PUSH : JSB_CB_PUSH NOVALUE,
BAS$$CB_POP : JSB_CB_RET NOVALUE,
BAS$$STOP_10 : NOVALUE,
                                                                                      Load register CCB
Done with register CCB
   116
                                                                                      signals fatal 1/0 error
```

BASSCLOSE 1-008		F 7 16-Sep-1984 00:07:54 14-Sep-1984 11:54:47	VAX-11 Bliss-32 V4.0-742 [BASRTL.SRC]BASCLOSE.B32;1
118 0997 119 0998 120 0999 121 1000 122 1001 123 1002 124 1003 125 1004 126 1005 127 1006 128 1007 129 1008 130 1009	BASSSPUR IO CLO : CALL CCB, BASSFIELD CLOSE : NOVALUE, BASSSCLOSE ALL : NOVALUE, OTSSSCLOSE FILE; The following are the error codes used EXTERNAL LITERAL BASSK_PROLOSSOR : UNSIGNED (8);	! Close all fil ! RMS Close a !	ed variables on this channel les with a certain IFI file

Page 4

IF (.CHANNEL NEQ 0)

Set up register CCB to point to the LUB/ISB/RAB for this channel.

BEGIN

THEN

```
H 7
16-Sep-1984 00:07:54
14-Sep-1984 11:54:47
BASSCLOSE
1-008
                                                                                                                         VAX-11 Bliss-32 V4.0-742
[BASRTL.SRC]BASCLOSE.B32;1
                                                                                                                                                                           Page
                                            BASSSCB_PUSH (.CHANNEL, LUBSK_LUN_MIN);
CCB [ISBSA_USER_FP] = .FMP [SFSL_SAVE_FP];
                       1067
1068
1069
1070
1071
1072
1073
1074
1075
1076
1077
    Purge the 1/0 buffer. This will only happen on a non-forcible device
                                    on which the last PRINT statement ended with a comma or semicolon.
                                            BAS$$PUR_10_CLO ();
                                    get rid of any FIELDed variables on this channel, they are no longer valid.
                                            IF .CCB [LUB$V_FIELD_USE]
                       1080
1081
1082
1083
1084
1085
1086
1087
                                                 BASSFIELD_CLOSE (.CHANNEL);
                                   RMS CLOSE the file, if it is open.
                                            IF (.CCB [LUB$V_OPENED])
                                            THEN
                                                 BEGIN
                      1089
1090
1091
1092
1093
1094
1095
1096
1099
1100
                                 ! If the file might have other streams connected, disconnect them.
                                                  IF (.CCB [LUB$V_M_STR_C]) THEN BAS$$CLOSE_ALL (.CCB [LUB$W_IFI]);
                                                  IF ( NOT OTS$$CLOSE_FILE ()) THEN BAS$$STOP_10 (BAS$K_10ERR_REC);
                                                 END:
                                    We are done with register CCB. If this is the only use of this channel
                                   (as is likely), then the LUB/ISB/RAB will be deallocated.
                      1102
1103
1104
1105
1106
                                            BAS$$(B_POP ();
                                            END:
                                       END:
                                                                                                   ! end of BAS$CLOSE
                                                                                                      .TITLE
                                                                                                                 BASSCLOSE
                                                                                                                 BASSSCB_PUSH, BASSSCB_POP
BASSSSTOP_IO, BASSSPUR_IO_CLO
BASSFIELD_CLOSE
BASSSCLOSE_ALL, OTSSSCLOSE_FILE
                                                                                                      .EXTRN
.EXTRN
.EXTRN
                                                                                                      .EXTRN
                                                                                                                 BASSK_PROLUSSOR
                                                                                                      .PSECT
                                                                                                                 _BAS$CODE,NOWRT, SHR, PIC,2
                                                                                  00000
00002
00005
00009
                                                                                                                                                                                1010
1054
1060
                                                                                                      .ENTRY
                                                                                                                 BASSCLOSE, Save R2,R3,R11
                                                      53
                                                                              DO
DO
13
                                                                                                      MOVL
                                                                                                                 FP. FMP
CHANNEL, R2
                                                                                                      MOVL
                                                                                                      BEQL
```

81	ASSCLOSE -008		16-Sep 14-Sep		VAX-11 Bliss-32 V4.0-742 [BASRTL.SRC]BASCLOSE.B32;1	Page 7 (3)
		00000000G 00 A1 AB 000000000 OC	A3 D0 00013 00 FB 00019 06 E1 00020 52 DD 00025 01 FB 00027 AB E9 0002E 1\$: 03 E1 00032 AB 3C 00037 01 FB 00042 50 E8 00049 01 CE 0004C 01 FB 0004F	CALLS #0, E BBC #6, - PUSHL R2 CALLS #1, E BLBC -4(CC	SCB_PUSH MP) - 180(CCB) BAS\$\$PUR_IO_CLO -95(CCB). 1\$ BAS\$FIELD_CLOSE CB). 3\$ -1(CCB). 2\$ CCB)(SP) BAS\$\$CLOSE_ALL DTS\$\$CLOSE_FILE 3\$ -(SP) BAS\$\$STOP_IO BCB_POP	1067 1068 1073 1078 1080 1086 1093 1095
:	Routine Size: 93 bytes,	Routine Base: _BAS\$	CODE + 0000			, 1100
	229 1107 1 230 1108 1 EN 231 1109 1 232 1110 0 EL	UDOM		! end of module	e BASSCLOSE	
		PSECT SUMMA	RY			
	Name	Bytes	Attribu	tes		
:	_BAS\$CODE	93 NOVEC,NO	OWRT, RD , EXE, S	HR, LCL, REL,	CON, PIC, ALIGN(2)	
		Library Statistics				
	File	Total	3/111000	Pages Mapped	Processing Time	
	_\$255\$DUA28:[SYSLIB]STA	RLET.L32:1 9776	1 0		00:01.2	

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/NOTRACE/LIS=LIS\$:BASCLOSE/OBJ=OBJ\$:BASCLOSE MSRC\$:BASCLOSE/UPDATE=(ENH\$:BASCLOSE)

; Size: 93 code + 0 data bytes; Run Time: 00:09.0 : Elapsed Time: 00:23.0 : Lines/CPU Min: 7375 : Lexemes/CPU-Min: 41534 : Memory Used: 119 pages : Compilation Complete 0020 AH-BT13A-SE

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